

16. The method according to claim **15**, wherein the act of determining the second static region includes identifying the second static region within a second predetermined range of angles as indicated by the angle sensor.

17. The method according to claim **12**, the method further comprising:

- comparing a first static region to a second static region;
- and
- estimating the fluid flow in accordance with the comparison.

18. The method according to claim **17**, further comprising:

- determining the first static region by identifying a peak movement of the plunger; and
- determining the second static region to be after the identified peak movement.

19. The method according to claim **17**, further comprising determining the second static region by identifying an end of the first static region.

20. A method for pumping fluid, the method comprising:

- engaging a cam follower of a plunger with a plunger cam;
- pivoting the plunger to a first position to compress a tube;
- disengaging the cam follower from the plunger cam;
- biasing the plunger toward the first position to compress the tube;
- compressing the tube using only a force of the biasing when in the first position;
- reengaging the cam follower with the plunger cam;
- pivoting the plunger to a second position away from the tube by using the plunger cam to retract the plunger to the second position;
- measuring a position of the plunger; and
- estimating a volume of fluid discharged from the tube using the position of the plunger when the cam follower is disengaged from the plunger cam.

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